

Abstract File System metadata meanings and behavior — 106

Generate a Directory Class and a File Class defining a Flat File System

Done

FIG. 1

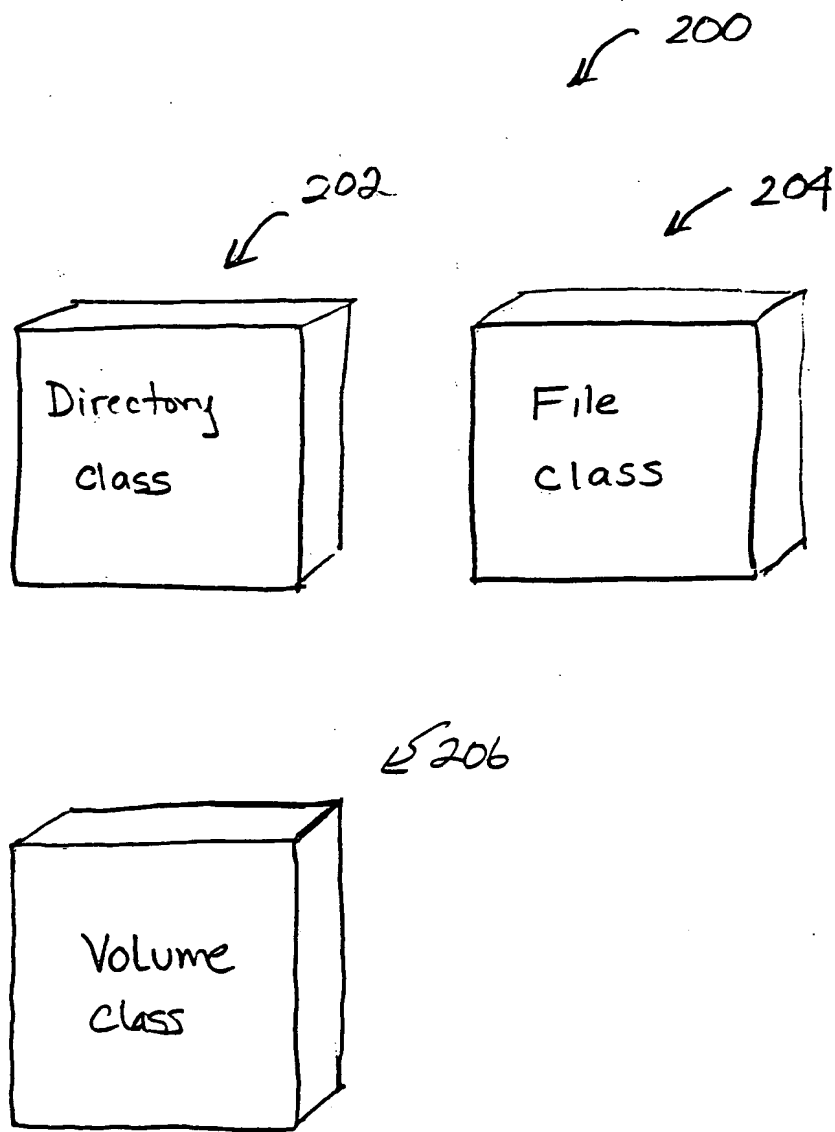


FIG. 2A

202

Directory Class

202a

ATTRIBUTES:

Type
Actions Enabled
Permissions
Owner
Group ID
Local ID
Local Parent ID
MAESI Bit
Mirror Bit
Mirror Target ID
Multicast IPV6 Address
Multicast mirror group
Frequency of Mirror
Time StampS
Etc.

202b

OPERATIONS:

Create ();
Delete ();
Move ();
Change owner ();
Change group ();
Link ();
Unlink ();
Change permissions ();

FIG. 2B

204

File Class

204a

ATTRIBUTES:

Type
Actions Enabled
Permissions
Owner
Group ID
Local ID
Local Parent ID
MAESI Bit
Mirror Bit
Mirror Target ID
Multicast IPV6 Address
Multicast Mirror Group
Frequency of Mirror
Time Stamps
Etc.

204b

OPERATIONS:

Open ();
Edit ();
Append ();
Read ();
Write ();
Link ();
Concatenate () or Open, Read, redirect, close ();
Create ();
Delete ();
Move ();
Change owner ();
Change group ();
Link ();
Unlink ();
Change permissions ();

FIG 2C

300
↙

DIR.A	F_{A1}	F_{A2}	F_{A3}	DIR.B	F_{B1}	f_{B2}	DIR.C	F_{C1}	F_{C2}	F_{C3}	F_{C4}	DIR.D	F_{D1}	F_{D2}
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FIG. 3A

350

300	DIR A		F_{A1}	F_{A2}	F_{A3}	DIR B		F_{B1}	f_{B2}	DIR C		F_{C1}	F_{C2}	F_{C3}	F_{C4}	DIR D		F_{D1}	F_{D2}	
	(IPID)		DIR A		DIR A		DIR B		DIR C		DIR C		DIR C		DIR C		DIR D		DIR D	
300A	(CI)		300B		300C		300D		300E		300F		300G		300H		300I		300J	
	Pointer A		N/A		Pointer B		N/A		Pointer C		N/A		N/A		Pointer D		N/A		N/A	

FIG. 3B

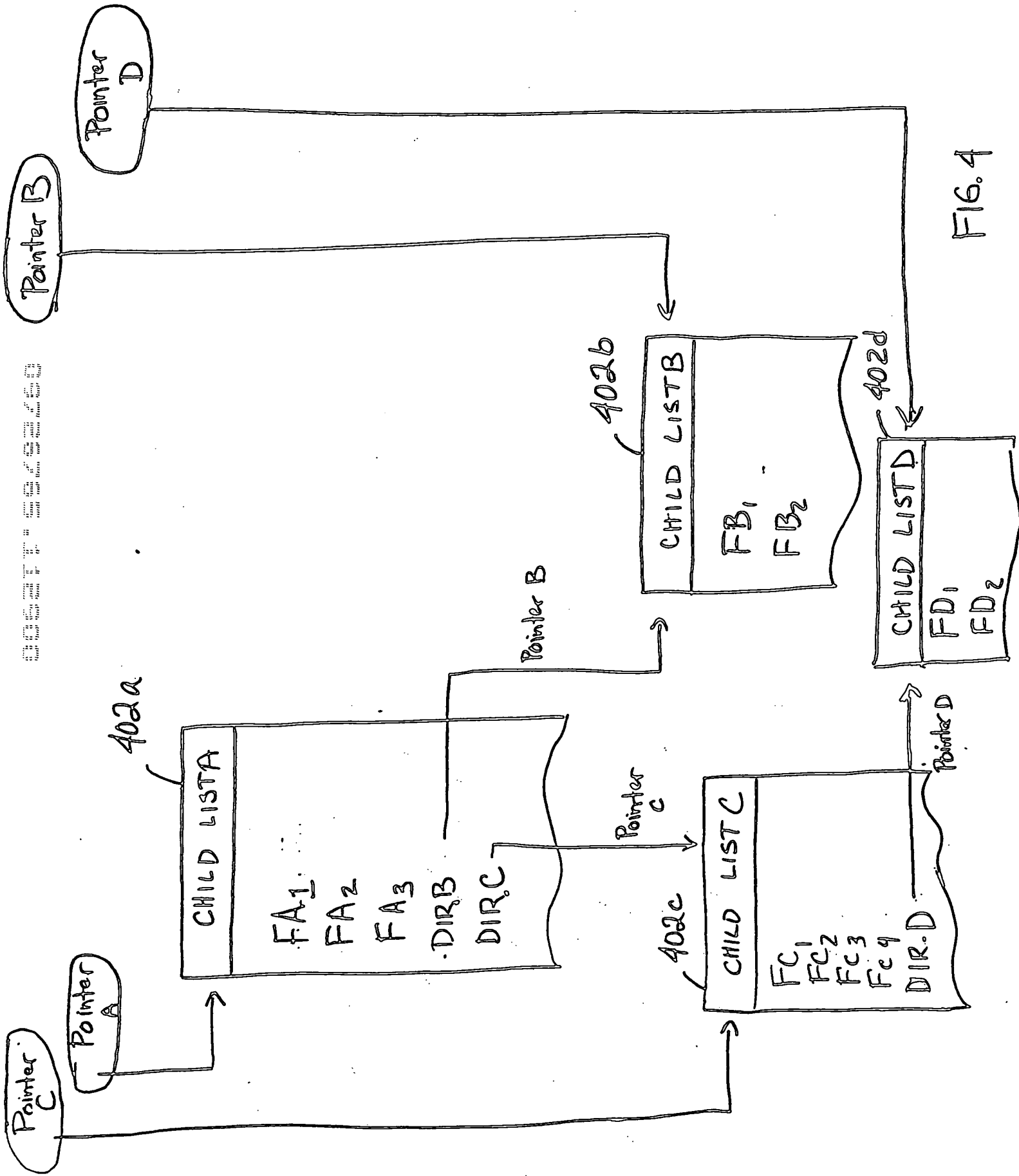


FIG. 4

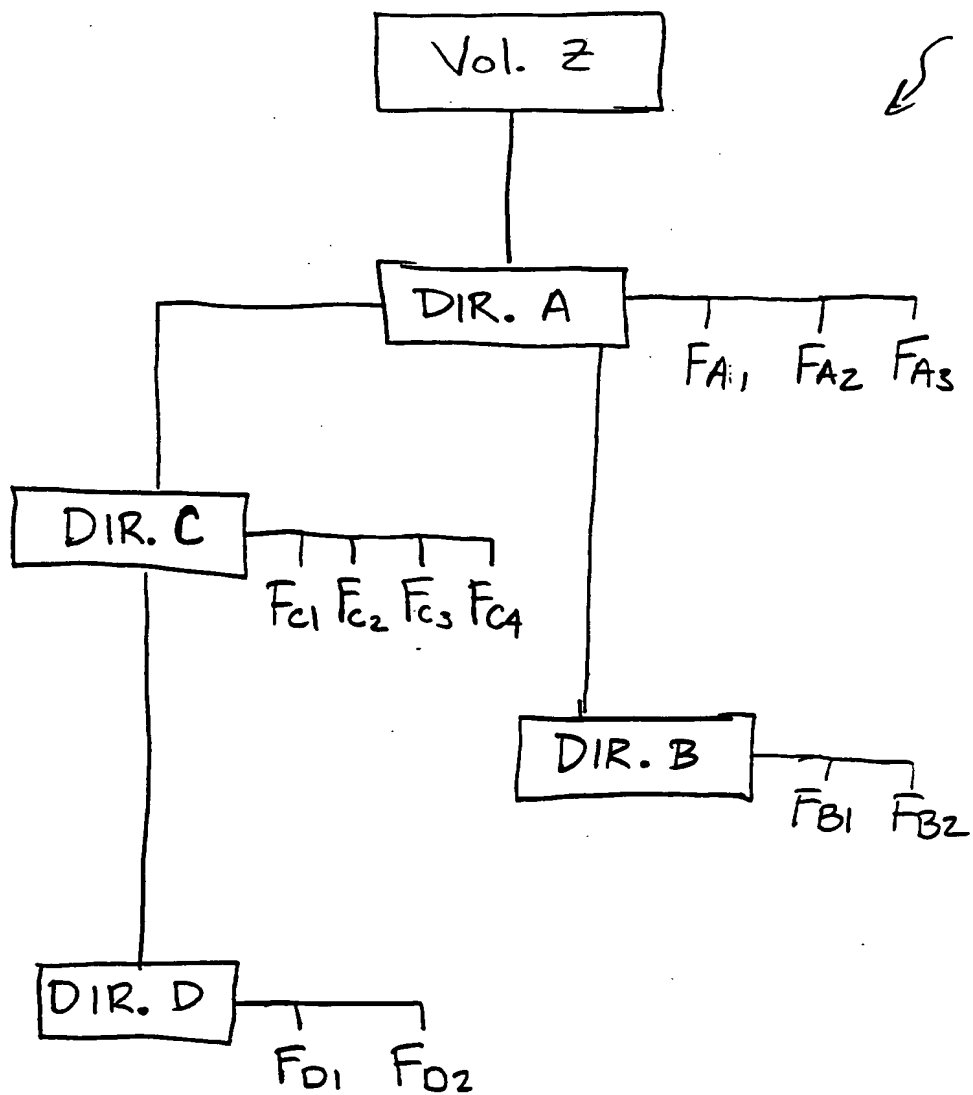


FIG. 5

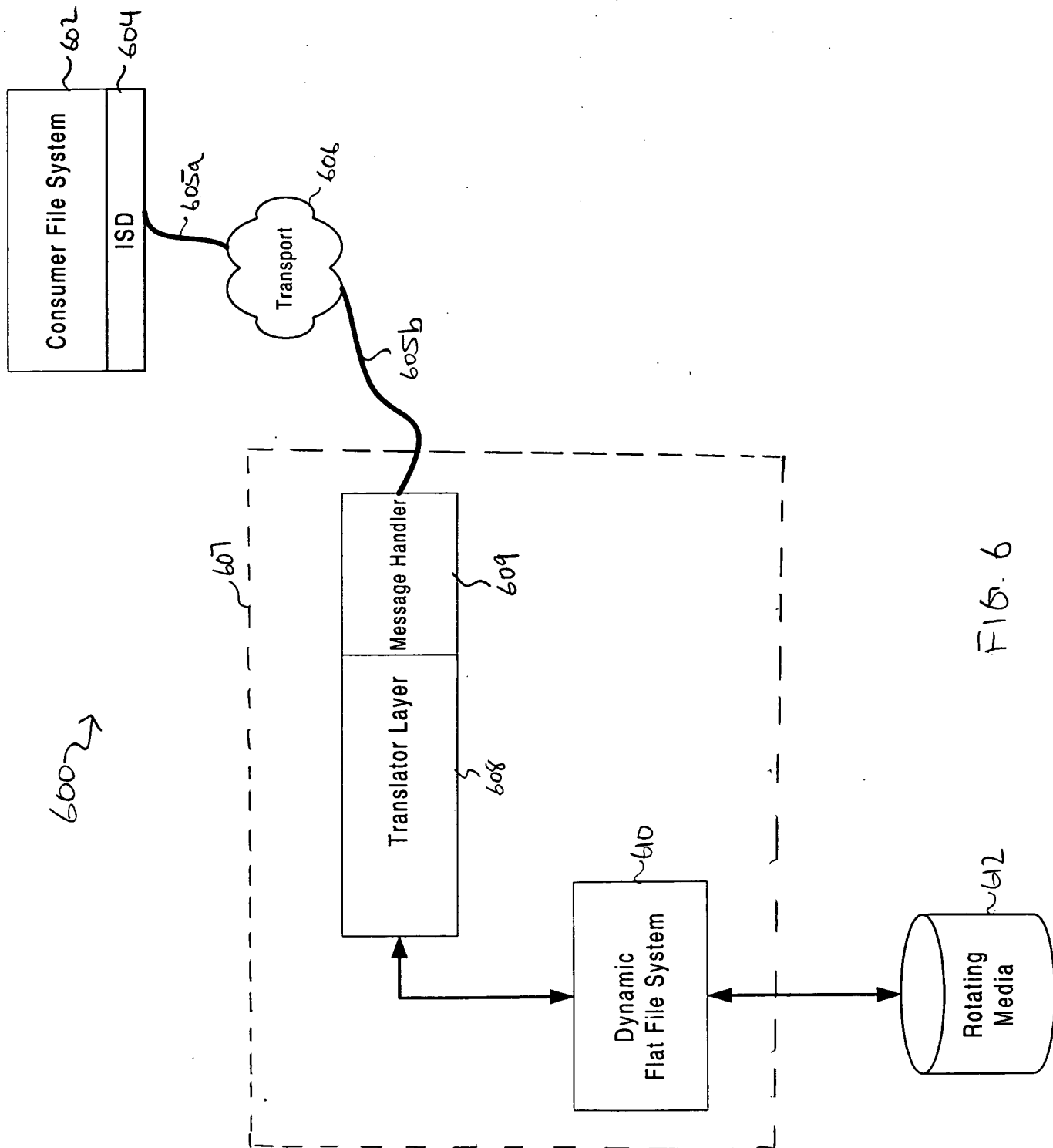


FIG. 6

2700

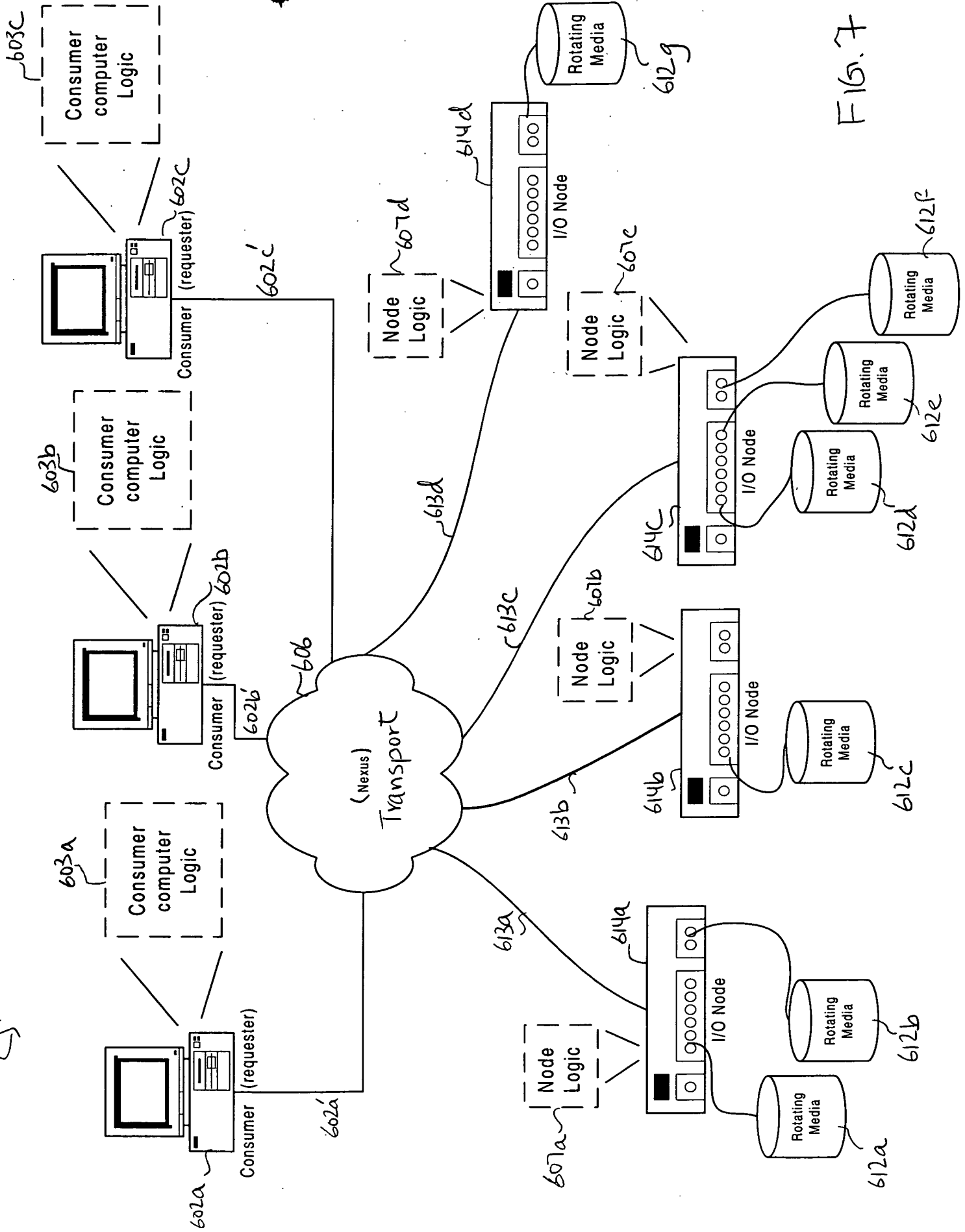


FIG. 7

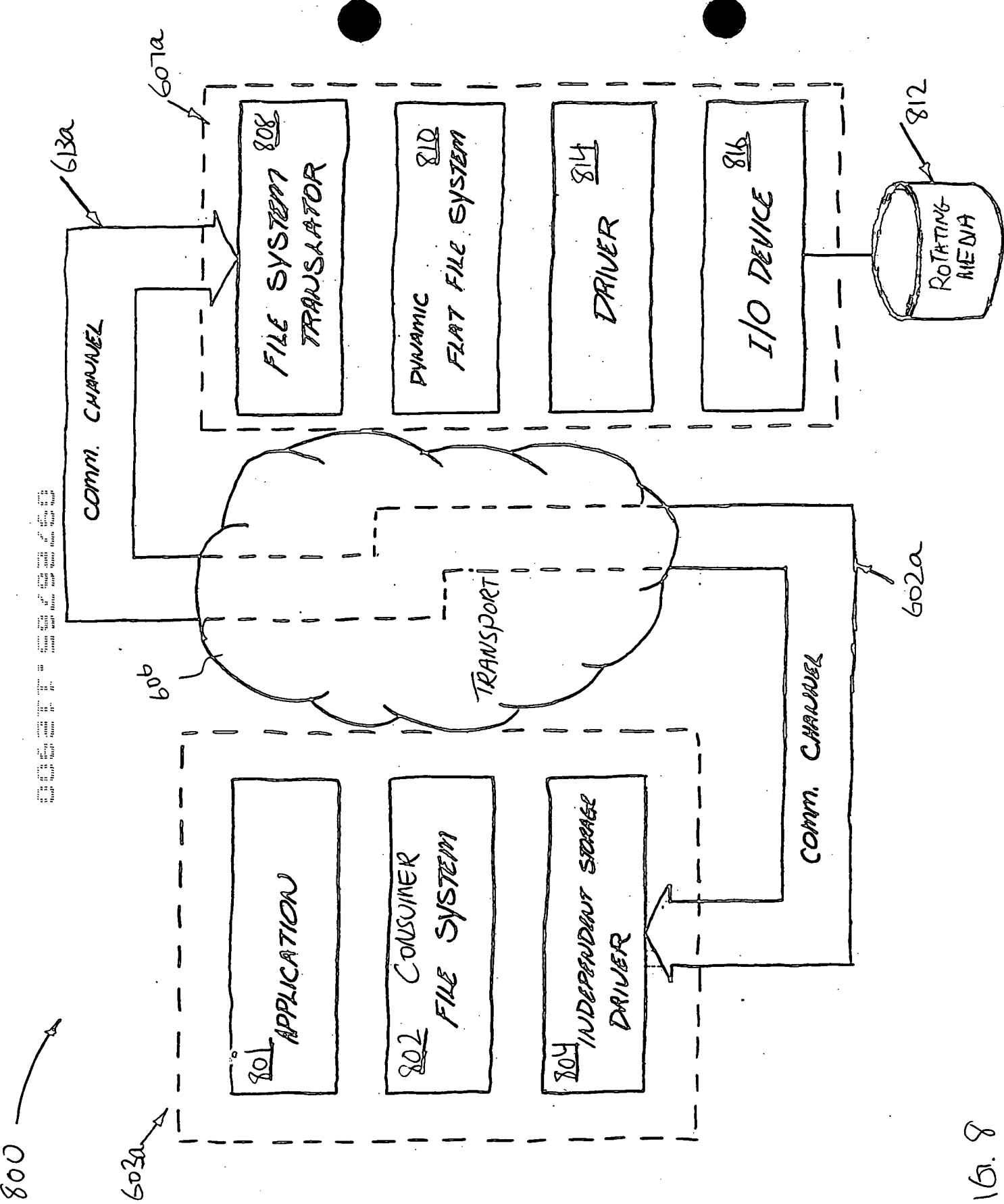


FIG. 8

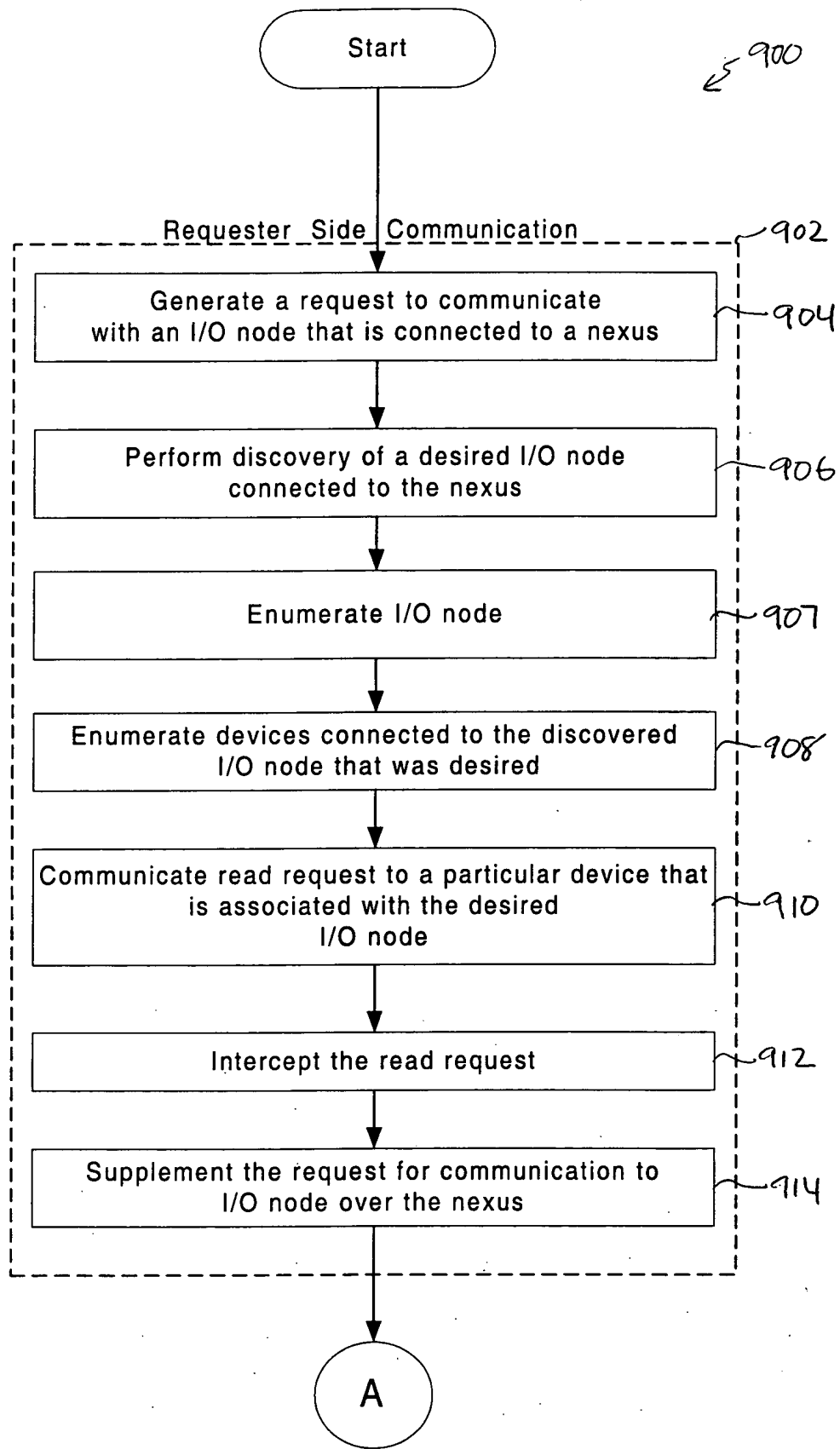


FIG. 9A

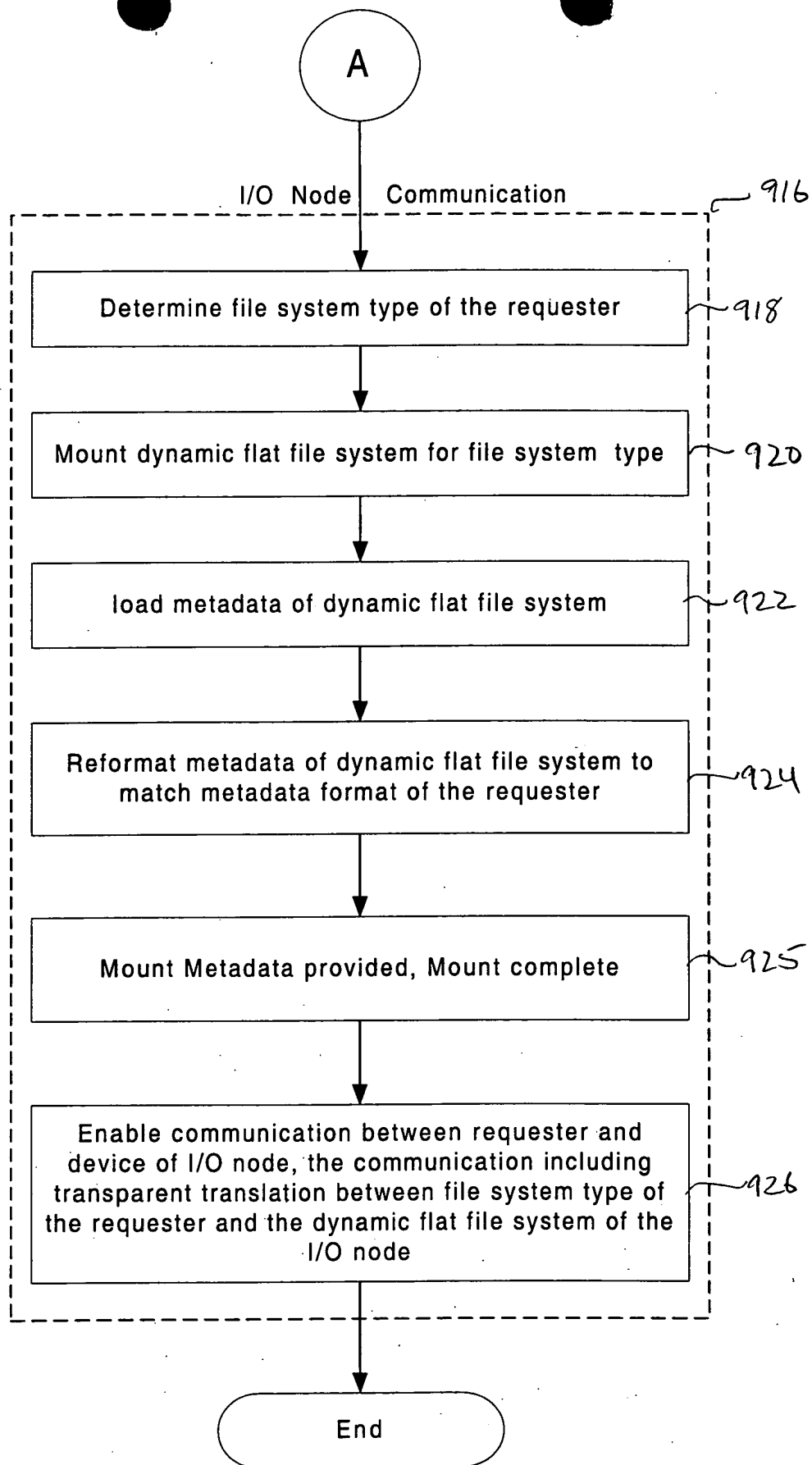


FIG. 913